

Write your name here

Surname

Other names

In the style of:

**Edexcel GCSE**

Centre Number

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Candidate Number

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# Mathematics A

## Fractions

**Foundation Tier**

Past Paper Style Questions  
Arranged by Topic

Paper Reference

**1MA0/2F**

**You must have:** Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- **Calculators may be used.**



### Information

- The total mark for this paper is 100
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (\*) are ones where the quality of your written communication will be assessed.

### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►



1. David earns a salary of £3500 per month.

He gets a pay rise of 4%.

Work out his new monthly salary.

.....

**(3)**



- 2(a)** Helen wins a race.  
Her time is recorded as 50.36 seconds. Andrew comes second in the race.  
His time is three-hundredths of a second slower.

Work out Andrew's time.

**(2)**

- (b)** Round Michael's time of 50.36 seconds to 1 decimal place.

**(1)**

**(Total 6 marks)**



3. Write a number in each box to make correct statements.

(a)  $50\% = \frac{\square}{2}$

(1)

(b)  $0.3 = \frac{\square}{10}$

(1)

(c)  $\frac{1}{\square} = \frac{\square}{9}$

(1)

(d)  $\frac{3}{15} = \frac{\square}{5}$

(1)

**Total 4 marks)**



4. Two banks calculate the yearly interest they pay customers.

**Westminster Bank**

4% of the total that you invest

For example: Invest £700

Interest = 4% of £700

**District Bank**

1% of the first £300 that you invest 6% of amounts over £300 that you invest

For example: Invest £700 Interest = 1% of £300 + 6% of £400

Ashna has £500 to invest for one year.

Work out which bank will pay her more interest.

State how much **extra** interest she will earn.

Bank .....

Extra Interest £.....

(5)



5 There are 180 people at a wedding. 20% are children.  
One-half are men. The rest are women.

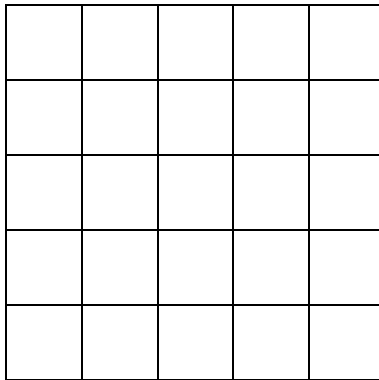
How many women are at the wedding?

Answer .....

(4)

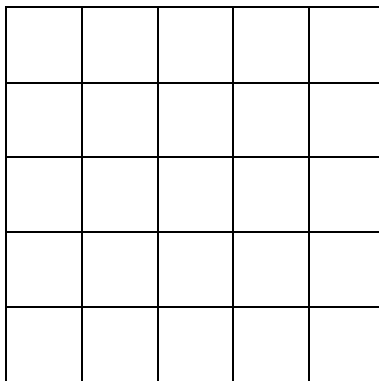


6 (a) Shade  $\frac{9}{25}$  of this square grid.



(1)

(b) Shade  $\frac{4}{5}$  of this square grid.



(1)

(c) Use your answers to part (a) and part (b) to write down the answer to

$$\frac{4}{5} - \frac{9}{25}$$

Answer .....

(1)

(d) Work out  $\frac{2}{3}$  of 36

Answer.....

(2)



7. (a) Use your calculator to work out  $\frac{4.7}{9.4-3.5}$

Write down all the figures on your calculator display.

.....  
(2)

(b) Write these numbers in order of size.  
Start with the smallest number.

0.82       $\frac{4}{5}$       85%       $\frac{2}{3}$        $\frac{7}{8}$

.....  
(2)  
(Total 4 marks)





9. A concert ticket costs £65 plus a booking charge of 15%.

Work out the total cost of a concert ticket.

£ .....

**(Total 3 marks)**

10. A school canteen sells salads and hot meals.

In one week the number of salads sold and the number of hot meals sold were in the ratio 3 : 5

The total number of salads and hot meals sold in the week was 1456

Work out the number of salads sold.

.....

**(Total 2 marks)**



11. A garage sells British cars and foreign cars.

The ratio of the number of British cars sold to the number of foreign cars sold is  $2 : 7$

The garage sells 45 cars in one week.

(a) Work out the number of British cars the garage sold that week.

.....  
(2)

A car tyre costs £80 plus VAT at  $17\frac{1}{2}\%$ .

(b) Work out the total cost of the tyre.

£ .....  
(3)

The value of a new car is £14 000

The value of the car depreciates by 20% per year.

(c) Work out the value of the car after 2 years.

£ .....  
(3)



12. There are some pens in a bag.

36 of the pens are blue.

24 of the pens are black.

- (a) Write down the ratio of the number of blue pens to the number of black pens.  
Give your ratio in its simplest form.

..... : .....  
(2)

There are some books and comics in a box.

The total number of books and comics is 54

The ratio of the number of books to the number of comics is 1 : 5

- (b) Work out the number of books in the box.

.....  
(2)

**(Total 4 marks)**



**13.** Louis invested £6500 for 2 years in a savings account.

He was paid 4% per annum compound interest.

(a) How much did Louis have in his savings account after 2 years?

£ .....  
(3)

Hassan invested £2400 for  $n$  years in a savings account.

He was paid 7.5% per annum compound interest.

At the end of the  $n$  years he had £3445.51 in the savings account.

(b) Work out the value of  $n$ .

.....  
(2)

**(Total 5 marks)**



14. (a) Work out  $\frac{2}{3} \div \frac{7}{9}$

Give your fraction in its simplest form.

.....  
(3)

(b) Work out  $2\frac{1}{3} - 1\frac{2}{5}$

.....  
(3)

**(Total 6 marks)**



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